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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of:

Robert F. Serman

Examiner: Not assigned

Serial No. 10/643,171

Group Art Unit: 3725

Filed: August 18, 2003

For: TREE FELLING ASSEMBLY

Bush Intellectual Property Law Group, LLC
Post Office Box 381146
Birmingham, Alabama 35238

Mail Stop Missing Parts
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

Petition to Accept Omitted Item(s) in a Nonprovisional Application
Under 37 C.F.R. § 1.182

Applicant respectfully petitions to the Commissioner to accept the attached specification, including pages 12-13 of the specification, which were inadvertently left out of the originally filed application. A Notice of Omitted Item(s) in a Nonprovisional Application was issued on November 12, 2003. In accordance with 37 C.F.R. § 1.182, Applicant includes herein:

- 1) a check in the amount of \$130.00 as the petition fee required by § 1.17(h);
- 2) this statement, which is signed by the attorney of record having firsthand knowledge of the facts, requesting the filing date as the date that the previously omitted items are being submitted;

- 3) copy of entire specification, including previously omitted pages;
- 4) a Supplemental Declaration signed by the inventor; and
- 5) a copy of the Notice of Omitted Item(s) in a Nonprovisional Application issued by the Patent Office on November 12, 2003.

Respectfully requested,



Kenneth M. Bush
Registration No. 40,544
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:dk

Enclosures

CERTIFICATE OF MAILING BY "EXPRESS MAIL" (37 CFR 1.10)Applicant(s): **Robert F. Serman**

Docket No.

serman 1

Serial No.

10/643,171

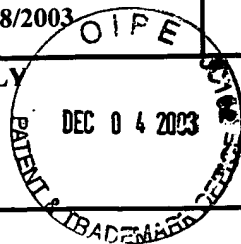
Filing Date

08/18/2003

Examiner

TBD

Group Art Unit

3725Invention: **TREE FELLING ASSEMBLY**

I hereby certify that the following correspondence:

Petition to Accept Omitted Item(s) in a Nonprovisional Application, Copy of previously submitted specification (including omitted pages), Supplemental Declaration, Fee, and copy of Notice of Omitted Item(s) in a Nonprovisional Application

(Identify type of correspondence)

is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on

December 4, 2003*(Date)***Donita King***(Typed or Printed Name of Person Mailing Correspondence)*

A handwritten signature in cursive script that reads "Donita King".

*(Signature of Person Mailing Correspondence)***ER342164604 US***("Express Mail" Mailing Label Number)***Note: Each paper must have its own certificate of mailing.**



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Bush Intellectual Property Law Group, LLC
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Birmingham, AL 35238

SUPPLEMENTAL DECLARATION

I hereby declare that:

I believe I am the original and first inventor of the subject matter which is claimed and for which a patent is sought on the above-referenced invention entitled "TREE FELLING ASSEMBLY."

I hereby declare that the subject matter of the attached specification, including pages 12-13 of the specification, which were inadvertently left out of the originally filed application, was part of the invention and was invented before the filing date of the original application, above identified for such invention.

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 C.F.R. 1.56.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are

punishable by fine or imprisonment, or both under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Respectfully submitted,

Robert F Serman

Dated: 12-3-03

Robert F. Serman
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TREE FELLING ASSEMBLY

FIELD OF THE INVENTION

[0001] The present invention relates to the field of tree removal, and with more particularity, to the cutting of delimbed tree trunks. With greater particularity, the present invention relates to a tree felling assembly and method of using the same for felling a tree trunk in a safe and controlled manner.

BACKGROUND OF THE INVENTION

[0002] Tree removal work activities are widely regarded as dangerous, and should only be performed by highly skilled professionals. Most homeowners do not have the necessary equipment or requisite skill to remove a tree, and must resort to hiring a tree removal service, often at great expense. Of paramount importance in conducting removal activities is the safety of the workers performing the tree removal. Utilizing conventional tree felling techniques and equipment, however, even professional tree workers are at a high risk of serious injury during tree removal from falling branches.

[0003] In addition to worker safety, another significant concern in the tree removal business is preventing property damage during tree removal process. Utilizing conventional tree felling techniques and equipment, there is a high risk of a falling tree or falling portions thereof such as branches or tree trunk segments damaging property. This can include damage to a home, vehicles, power and utility lines, roads, and other trees. Additional hazards resulting from tree removal activities include damage to landscaping, fencing, and lighting structures adjacent to the

removed tree. As a result of these hazards, insurance rates for tree removal businesses are high as are the resulting fees for tree-removal services.

[0004] There are many instances in which it is necessary to remove a tree in a timely manner. For instance, a dead tree should be removed promptly, especially if it is in an area that can cause personal injury or property damage if it fell. Trees that suffer significant decay should likewise be removed. Additionally, it may be necessary to remove a tree that has critical structural defects such as cracks. Otherwise, such trees can fall in an uncontrolled and unpredictable manner such as during a severe storm. Unfortunately, the great expense associated with tree removal services, as well as the widely recognized hazards associated with tree removal activities, provide a disincentive to tree removal in a timely manner.

[0005] From the foregoing it may be seen that there is a significant need for improved devices and techniques for felling trees, to reduce the hazards and expense associated with tree removal. A need exists for a tree felling assembly and method of using that same that overcomes the limitations of the prior art and enables trees to be felled and handled in a controlled and safe manner.

SUMMARY OF THE PRESENT INVENTION

[0006] It is an object of the present invention to provide an improved assembly for use in felling trees.

[0007] Another object of the present invention is to provide a tree felling assembly that fells trees in a safe and controlled manner.

[0008] An additional object of the present invention is to provide a tree felling assembly that is simple and inexpensive to use and manufacture.

[0009] A further object of the present invention is to provide an assembly for felling a tree trunk in segments thereof, and for safely lowering the removed segments from the trunk in a controlled manner to minimize the possibility of property damage in the proximity of the tree trunk.

[0010] Another object of the present invention is to provide an improved method for felling a tree in a safe and controlled manner.

[0011] A still further object of the present invention is to provide a method of felling a tree trunk in segments thereof and selectively lowering the segment to a drop zone.

[0012] A further object of the present invention is to provide a method of felling a tree trunk that produces trunk segments that are long enough to be sawn for lumber as opposed to merely trash or firewood.

[0013] These and other objects of the present invention are accomplished through the use of a tree felling assembly comprising a vertical support structure having an elongated base portion, an elongated mast portion connected to the base portion and having at least a portion extending upwardly therefrom, and a horizontal lip extending from the base or integrally formed therewith for contacting engagement with a conventional notch formed in the trunk. The lip provides vertical support for the tree felling assembly during the process of cutting a segment from the trunk and

selectively lowering the segment to a drop zone. This significantly enhances the stability and safety of the present invention during use.

[0014] The tree felling assembly further comprises a top eyelet connected to or integrally formed with the back surface of the mast proximate its distal end, and a first pulley block connected thereto. The tree felling assembly further comprises a back eyelet positioned on or integrally formed with the back surface of the vertical support structure. A lowering eyelet is positioned on or integrally formed with the forward surface of the mast proximate the lip. The tree felling assembly further comprises a take-away cable operatively connected to the vertical support structure and extending generally downward therefrom to the ground below.

[0015] The take-away cable is used to lower and guide segments that have been cut from the tree trunk in a controlled manner. More specifically, during use of the tree felling assembly, a portion of the take-away cable is positioned above a drop zone onto which the segment is placed after being removed from the trunk. The drop zone may be the bed of a truck, allowing removed segments to be taken directly from the tree trunk onto means for transporting the segments from the worksite without additional on-site cutting or loading activities. Alternatively, the drop zone may be at grade in an optimum location where the removed segments may be stored or further processed. It can be appreciated that the present invention allows for felling a tree trunk in a controlled manner without causing damage to adjacent structures.

[0016] These and other objects and advantages of the invention will become apparent from the following detailed description of the preferred embodiment of the invention.

BRIEF DESCRIPTION OF THE DRAWINGS

[0017] A tree felling assembly embodying the features of the present invention is depicted in the accompanying drawings which form a portion of this disclosure and wherein:

[0018] FIG. 1 is a first perspective view of the preferred embodiment of a tree felling assembly;

[0019] FIG. 2 is a second perspective view of the preferred embodiment of a tree felling assembly;

[0020] FIG. 3 is front elevational view of the preferred embodiment of a tree felling assembly;

[0021] FIG. 4 is a rear elevational view of the preferred embodiment of a tree felling assembly;

[0022] FIG. 5 is a right side elevational view of the preferred embodiment of a tree felling assembly;

[0023] FIG. 6 is a top plan view of the preferred embodiment of tree felling assembly;

[0024] FIG. 7A is a perspective view of the preferred embodiment of a tree felling assembly secured to a tree trunk prior to cutting a segment therefrom;

[0025] FIG. 7B is a perspective view of the preferred embodiment of a tree felling assembly secured to a tree trunk prior to cutting a segment therefrom;

[0026] FIG. 8 is a perspective view of the preferred embodiment of a tree felling assembly during repositioning of the assembly along a tree trunk;

[0027] FIG. 9 is a perspective view of the preferred embodiment of a tree felling assembly during lowering of a tree trunk segment along a take-away cable operatively engaging the assembly; and

[0028] FIG. 10 is a perspective view of a second embodiment of a tree felling assembly during lowering of a tree trunk segment along a take-away cable operatively engaging the assembly.

DESCRIPTION OF THE PREFERRED EMBODIMENT

[0029] The present invention provides a tree felling assembly **10** for use in felling a tree trunk **11** in a safe and controlled manner. The assembly **10** provides for felling a tree trunk **11** in segments **11a** thereof, and for safely lowering the removed segments from the trunk **11** in a controlled manner, thereby minimizing the possibility of property damage in the proximity of the tree trunk **11**. Referring to Figures 1 – 10 for a clearer understanding of the invention, it may be seen that the preferred embodiment of the tree felling assembly **10** comprises a vertical support structure having an elongated base portion **12**, an elongated mast portion **14** connected to the

base portion **12** and having at least a portion extending upwardly therefrom, and a horizontal lip **16** extending from the base **12** or integrally formed therewith for contacting engagement with a conventional notch **18** formed in the trunk **11**. The present invention is utilized to fell a tree trunk **11** that has been delimbed.

[0030] The lip **16** is connected to or integrally formed with the base **12** and projects forward therefrom, as shown in Figure 5. The lip **16** has a bottom surface (not shown) for contacting engagement with at least a portion of a lower surface **18a** of the notch. As shown in Figures 7A and 7B, the lip **16** is sized to rest within the notch **18** when the assembly is in position for use. In this manner, the lip **16** provides vertical support for the tree felling assembly **10** during the process of cutting a segment **11a** from the trunk and selectively lowering the segment **11a** to a drop zone **42**. In addition to a base **12**, mast **14**, and lip **16**, the present invention further comprises means for securing the base **12** to the trunk **11**. Because the lip **16** of the present invention provides vertical support for the assembly, the means for securing the base **12** to the trunk **11** is thereby relieved from carrying the vertical load. This significantly enhances the stability and safety of the present invention during use. The assembly **10** provides a safe method of felling a tree trunk **11** in a controlled manner. In the preferred embodiment, the means for securing comprises at least one chain binder **20** connected at opposite ends thereof to the base **12**. It is contemplated that the present invention may utilize other such means for securing the base **12** to the trunk **11** as are well known in the art. In the preferred embodiment, the chain binders **20** further comprise means for tightening, namely,

chain clamp assemblies **20a**, that allow the base **12** to be readily secured to the tree trunk **11** after it has been properly positioned.

[0031] In the preferred embodiment, as shown in Figures 1 and 6, the base **12** is comprised of an elongated, rigid I-beam having an upper surface **12a**, a front surface **12b**, and a back surface **12c**. The lip **16** is positioned on the upper surface **12a** of the base and has a portion extending forward of the front surface **12b** of the base. The lip has a lower surface (not shown), a portion of which is in contacting engagement with lower surface **18a** of a conventional notch **18** when the assembly is secured to a tree trunk **11**. When the vertical support structure is secured to the trunk **11**, a portion of the front surface **12b** of the base is in contacting engagement with the trunk **11**. The base **12** of the preferred embodiment of the tree felling assembly **10** additionally has a storage compartment **22** for use in storing various tools and accessories, such as but not limited to hammers, ropes, pulley blocks, and eye bolts during use of the tree feller **10**. The storage compartment **22** has an open top and is formed by the lower portion of the back surface **12c** of the base with a bottom element **22a** and side element **22b** connected thereto. The storage compartment **22** may be utilized with an open top because the tree felling assembly **10** of the present invention maintains a generally vertical orientation during use, as further described below. The tree felling assembly **10** further comprises a snubbing ring **24** affixed to the base **12**, as shown in Figures 1, 3, and 4, around which one or more ropes may be looped for purposes of securing or for manually controlling the rate at which the rope may be upwardly fed as the segment **11a** is lowered.

[0032] In the preferred embodiment, as shown in Figures 2 and 6, the mast **14** is comprised of an elongated, rigid I-beam generally smaller in proportion to the base **12**, connected at its proximal end **14a** to the base **12**. The vertical support structure of the present invention is formed by the back surface **14c** of the mast and the back surface **12c** of the base, as shown in Figures 2 and 4. The tree felling assembly **10** further comprises a top eyelet **26** connected to or integrally formed with the back surface **14c** of the mast **14** proximate its distal end, as shown in Figures 2 and 5, and a first pulley block **32** such as but not limited to a snatch block connected thereto. The tree felling assembly **10** further comprises a back eyelet **28**, shown in Figures 2 and 5, positioned on or integrally formed with the back surface of the vertical support structure. As shown in Figures 1 and 5, a lowering eyelet **30** is positioned on or integrally formed with the forward surface **14b** of the mast proximate the lip **16**.

[0033] The tree felling assembly **10** comprises a take-away cable **40** operatively connected to the vertical support structure and extending generally downward therefrom to the ground below. The take-away cable **40** is used to lower and guide segments **11a** that have been cut from the tree trunk **11** in a controlled manner. More specifically, during use of the tree felling assembly **10**, a portion of the take-away cable **40** is positioned above a drop zone **42** onto which the segment **11a** is placed after being removed from the trunk. The drop zone **42** may be the bed of a truck, allowing removed segments **11a** to be taken directly from the tree trunk **11** onto means for transporting the segments **11a** from the worksite without additional on-site cutting or loading activities. Alternatively, the drop zone **42** may be at grade in an optimum location where the removed segments **11a** may be stored or further

processed. It can be appreciated that the present invention allows for felling a tree trunk **11** in a controlled manner without causing damage to adjacent structures.

[0034] The present invention further comprises a take-away pulley block **36** operatively engaging the take-away cable **40**. In the preferred embodiment, as shown in Figure 9, the take-away cable **40** operatively engages a second pulley block **34** connected to the back eyelet **28** and the first pulley block **32**. In this embodiment, the upper end **40a** of the take-away cable is connected to the take-away pulley block **36**. In a second embodiment of the present invention, as shown on Figure 10, the take-away cable **40** may be connected at its upper end **40a** to the back eyelet **28**. In both embodiments, the take-away cable **40** extends generally downwardly from the vertical support structure proximate the back eyelet **28** or second pulley block **34** to the drop zone **42**. In both embodiments, the lower end of the take-away cable **40** may be operatively connected to a winch **41** or other means of tightening or feeding the take-away cable **40**. The pulley blocks **32**, **34**, **36** may be connected to eyelets by connecting means well known in the art such as but not limited to connectors **38** such as shackles and snap rings.

[0035] The present invention comprises a method of progressively felling a tree trunk in segments, as described with reference to Figures 7 - 10. The tree felling method comprises positioning a tree felling assembly **10** along the trunk **11**, the assembly having a base **12**, horizontal lip **16** connected to the base **12** and projecting forward therefrom, and a mast **14** connected to the base **12** and having at least a portion extending upwardly from the base **12**. This positioning step may occur during

initial use of the tree felling assembly **10** prior to the removal of an uppermost segment of the trunk **11**, or any subsequently removed segment **11a**. The method further comprises the step of cutting a conventional notch **18** in the trunk **11** below the assembly **10**, the notch **18** having a lower surface **18a**.

[0036] The assembly **10** is then repositioned along the trunk **11** so that the lip **16** is in contacting engagement with at least a portion of the lower surface **18a** of the notch. As shown in Figures 7A and 7B, the assembly **10** is then secured to the trunk below the segment **11a**. The segment **11a** is then cut from the trunk and lowered therefrom by and along a take-away cable **40** operatively engaging the assembly **10**. The take-away cable **40** may be connected at its lower end to a winch **41** or other device utilized for taking slack out of the line. A portion of the take-away cable **40** is positioned above drop zone **42**, and the segment **11a** may then be selectively disengaged from the take-away cable **40** at the drop zone **42**.

[0037] In the preferred embodiment, as shown in Figure 9, the tree felling method further comprises the steps of affixing the upper end **40a** of a take-away cable **40** to the segment **11a**, and the step of engaging the take-away cable **40** with a first pulley block **32** connected to the mast **14** proximate a distal end thereof, and with a second pulley block **34** connected to a back surface of the assembly **10** prior to the cutting step. In the preferred embodiment, the method may further include the steps of attaching the segment **11a** to the take-away pulley block **36** operatively engaging the take-away cable **40** prior to the lowering step. In this method, concomitant with the lowering step may be the step of selectively feeding the take-away cable **40** from the

ground through the first and second pulley blocks **32**, **34**, thereby lowering the segment **11a** from the trunk. The take-away cable **40** may be connected at its lower end to a winch **41** or other device utilized to feed the cable **40** to lower the segment **11a**. This provides for lowering the segment **11a** in a highly controlled manner. The segment **11a** may then be selectively disengaged from the take-away cable **40** at the aforementioned drop zone **42**.

[0038] In a second embodiment, as shown in Figure 10, the tree felling method does not comprise affixing the upper end of a take-away cable **40a** to the segment **11a**. Instead, in this method the upper end **40a** of the take-away cable is connected to the back eyelet **28** to which a take-away pulley block **36** is operatively engaged. The second method comprises the steps of affixing a first end **44a** of a lowering rope **44** to a segment **11a**, and engaging the lowering rope **44** with a first pulley block **32** connected to the mast **14** at a distal end thereof prior to the cutting step. This method may or may not include the step of looping a portion of the lowering rope **44** around a snubbing ring **24** affixed to the tree felling assembly base **12**. This method may further comprise the steps of attaching the segment **11a** to the take-away pulley block **36** prior to the lowering step, and thereafter concomitant with the lowering step, selectively feeding the lowering rope **44** through the first pulley block **32**. In this manner the segment **11a** is lowered from the trunk and vertical support structure in a controlled manner after which it may be selectively disengaged from the take-away cable **40** at the drop zone **42**.

[0039] In either the first or second embodiment, the repositioning step may further comprise the steps of attaching an eye nut **46** to a bolt driven into the top portion of the trunk **11b**, connecting a first end **48a** of a positioning rope **48** to a lowering eyelet **30**, threading a second end **48b** of the positioning rope **48** through the eye nut **46** a first time, through the lowering eyelet **30**, and then through the eye nut **46** a second time, and pushing the tree felling assembly **10** off of the trunk **11**. Thereafter the positioning rope **48** may be selectively fed through the eye nut **46** to reposition the tree felling assembly **10**, as generally shown in Figure 8. The repositioning step may further comprise the step of looping a portion of the positioning rope **48** around a snubbing ring **24** affixed to the base **12** prior to the feeding step, for use in manually controlling the rate at which the positioning rope may be upwardly fed.

[0040] It is to be understood that the form of the invention shown is a preferred embodiment thereof and that various changes and modifications may be made therein without departing from the spirit of the invention or scope as defined in the following claims.

CLAIMS

What is claimed is:

1. An assembly for felling a segment of a tree trunk having at least one notch with a lower surface, said assembly comprising in combination:
 - a base,
 - a horizontal lip connected to said base and projecting forward therefrom for contacting engagement with at least a portion of said lower surface,
 - a mast connected to said base, said mast having at least a portion extending upwardly from said base, and
 - means for securing said base to said trunk.
2. An assembly for felling a segment of a tree trunk as described in claim 1 wherein said means for securing comprises at least one chain binder connected at opposite ends thereof to said base.
3. An assembly for felling a segment of a tree trunk as described in claim 1 further comprising a snubbing ring attached to said base.
4. An assembly for felling a segment of a tree trunk as described in claim 1 wherein said mast has a distal end, said assembly further comprising a top eyelet connected to said mast proximate the distal end thereof, and a first pulley block attached to said top eyelet.
5. An assembly for felling a segment of a tree trunk as described in claim 1 wherein said base has a storage compartment.
6. An assembly for felling a segment of a tree trunk as described in claim 1 further comprising a lowering eyelet positioned on said mast proximate said lip.

7. An assembly for felling a segment of a tree trunk as described in claim 1 wherein said base and said mast form a back surface, said assembly further comprising a back eyelet positioned on said back surface.

8. An assembly for felling a segment of a tree trunk as described in claim 7 further comprising a take-away cable having an upper end connected to said back eyelet.

9. An assembly for felling a segment of a tree trunk as described in claim 8 further comprising a take-away pulley block operatively engaging said take-away cable.

10. An assembly for felling a segment of a tree trunk as described in claim 7 further comprising a second pulley block connected to said back eyelet, and a take-away cable engaging said first pulley block and said second pulley block.

11. An assembly for felling a segment of a tree trunk as described in claim 10 further comprising a take-away pulley block engaging said take-away cable.

12. An assembly for felling a tree trunk in segments thereof comprising:
a vertical support structure having an elongated base portion, an elongated mast portion connected to said base portion, and a horizontal lip extending from said base for contacting engagement with a notch formed in said trunk, and

a take-away cable operatively connected to said vertical support structure, said take-away cable have at least a portion positioned above a drop zone.

13. An assembly for felling a tree trunk as described in claim 12 wherein said take-away cable has an upper end connected to a back eyelet positioned on a back surface of said vertical support structure.

14. An assembly for felling a tree trunk as described in claim 12 wherein said take-away cable has a distal end connected to said segment, and said assembly further comprises a first pulley block and second pulley block operatively engaging said cable, said first pulley block being connected to the distal end of said mast portion and said second pulley block being connected to a back surface of said vertical support structure.

15. A method of felling a tree trunk, comprising the steps of
positioning a tree felling assembly along said trunk, said assembly having a base, a horizontal lip connected to said base and projecting forward therefrom, and a mast connected to said base, said mast having at least a portion extending upwardly from said base,

cutting a notch in said trunk below said assembly, said notch having a lower surface,

repositioning said assembly along said trunk so that said lip is in contacting engagement with at least a portion of said lower surface,

securing said assembly to said trunk below said segment,

cutting said segment from said trunk, and

lowering said segment from said trunk along a take-away cable operatively engaging said assembly.

16. A method of felling a tree trunk as described in claim 15 further comprising the steps of:

affixing a first end of a lowering rope to said segment, and

engaging said lowering rope with a first pulley block connected to said mast proximate a distal end thereof prior to said cutting step.

17. A method of felling a tree trunk as described in claim 11 further comprising the step of looping a portion of said lowering rope around a snubbing ring affixed to said base.

18. A method of felling a tree trunk as described in claim 16 further comprising the step of attaching said segment to a take-away pulley block operatively engaging said take-away cable prior to said lowering step, said take-away cable having a portion extending above a drop zone.

19. A method of felling a tree trunk as described in claim 17 further comprising the step of selectively feeding said lowering rope through said first pulley block concomitant with said lowering step.

20. A method of felling a tree trunk as described in claim 15 further comprising the step of selectively disengaging said segment from said take-away cable at said drop zone.

21. A method of felling a tree trunk as described in claim 15 further comprising the steps of:

affixing a distal end of a take-away cable to said segment, and

engaging said take-away cable with a first pulley block connected to said mast proximate a distal end thereof, and with a second pulley block connected to a back surface of said assembly prior to said cutting step.

22. A method of felling a tree trunk as described in claim 16 further comprising the step of attaching said segment to a take-away pulley block operatively

engaging said take-away cable prior to said lowering step, said take-away cable having a portion extending above a drop zone.

23. A method of felling a tree trunk as described in claim 22 further comprising the step of selectively feeding said take-away cable through said first and second pulley blocks concomitant with said lowering step.

24. A method of felling a tree trunk as described in claim 23 further comprising the step of selectively disengaging said segment from said take-away cable at said drop zone.

25. A method of felling a tree trunk as described in claim 15 wherein said repositioning step comprises the steps of:

- attaching an eye nut to a top portion of said trunk,
- connecting a first end of a positioning rope to a lowering eye,
- threading a second end of said positioning rope through said eye nut a first time, said lowering eye, and said eye nut a second time,
- pushing said assembly off of said trunk, and
- selectively feeding said positioning rope through said eye nut.

26. A method of felling a tree trunk as described in claim 25 wherein said repositioning step further comprises the step of looping a portion of said positioning rope around a snubbing ring affixed to said base prior to said feeding step.

ABSTRACT

An assembly for felling a segment of a tree trunk in a safe and controlled manner and method of using the same. The assembly comprises a vertical support structure having an elongated base portion, an elongated mast portion connected to the base portion or integrally formed therewith and having at least a portion extending upwardly therefrom, and a horizontal lip extending from the base or integrally formed therewith for contacting engagement with a conventional notch formed in the trunk. The method of felling a tree trunk comprises positioning the tree felling assembly along the trunk, cutting a conventional notch in the trunk below the assembly, the notch having a lower surface, repositioning the assembly along the trunk so that the lip is in contacting engagement with at least a portion of the lower surface, securing the assembly to the trunk below the segment, cutting the segment from the trunk, and lowering the segment from the trunk along a take-away cable operatively engaging the assembly.